



ASTIS™

Automatic Shoe Track Information System
Pattern Matching Technology with UltraMatch™

The First Automatic Matching Solution for Shoes Soles

Recognize, where the similarities are – of which original sole could these tracks stem and could they even stem from the same original sole i.e. the same shoe?

Original Shoe vs. Reference Tracks vs. Tracks on The Site of Crime

ASTIS™ works autonomously. The system matches and analyzes different but similar shoe tracks for detecting which tracks could stem from which shoe type (label, model, type, etc.). ASTIS™ thereby matches the tracks of different cases or of different forensic records of suspects, as well as with existing collections of reference tracks.

ASTIS™ is delivered with an image data base and a graphics editor as well as a standardized reproduction facility for records. Beside automatic shoe tracks matching, the database and application, IMAGE ACCESS, provides manual editing and analyzing functions. After obtaining a result the expert still has the possibility of executing further matching and analyses.

The Semiotic Pattern Analysis

This is a combination of pure image matching (optical) and the „knowledge“ of show sole tracks, thus the knowing of the concept, what do tracks of shoe soles mean and how to interpret such tracks. Semiotics in this context means, that ASTIS™ can connect the reality of the tracks with their origin and their meaning. Only by considering this knowledge when viewing and matching images can the human or the system infer the origin of the tracks.

